BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Repairs and Maintenance of BBMP Office in Ward Number-5,Yelahanka New Town Sub Division

								Estimate Cost	**2000000.00**
Sl No.	**Description of work**	**Unit**	**Mesurement**				**Qty.**	**Rate**	**Amount**
			No.	L	B	D			
1	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The terproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge. (PWD SR 2021-22 Vol -II Pg 133 item no 15.1)								
	Library Building								
		Sqm	1	9.61	14.40		138.38		
		Sqm	1	5.14	3.43		17.63		
		Sqm	1	5.57	5.20		28.96		
	Basic rate							**745.00**	
	Area weightage 10%							**74.50**	
	Total						**184.98**	**819.50**	**151589.63**
2	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67 ltr/10 m^2 over and including priming coat of exterior primer applied @ 2.20 kg/10 m^2) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(PWD SR 2021-22 Vol -II Pg 46 item no 8.30)								
	Library Building								
	Outside Painting								
	Ground Floor								
	Longer direction	Sqm	2	18.2		3.12	113.568		
	Shorter direction	Sqm	2	10.7		3.12	66.768		
		Sqm	2	10.7		3.12	66.768		
	Varandha Sealing	Sqm	1	6.4	5.2	3.12	103.8336		
	Chejja	Sqm	24	2.1	0.6		30.24		
		Sqm	24	2.1	0.6		30.24		
	1st Floor								
	Longer direction	Sqm	2	18.2		3.12	113.568		
	Shorter direction	Sqm	2	10.7		3.12	66.768		
		Sqm	2	10.7		3.12	66.768		
	Varandha Sealing	Sqm	1	6.4	5.2	3.12	103.8336		
	Chejja	Sqm	24	2.1	0.6		30.24		
	1st Floor Parapet wall	Sqm	2	6.49		0.97	12.5906		
		Sqm	2	5.24		0.97	10.1656		
	Terrace Parapet Wall								
		Sqm	2	9.61		0.87	16.7214		
		Sqm	2	17.65		0.87	30.711		
		Sqm	2	1.87		0.87	3.2538		

Sl No.	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
		Sqm	2	5.2		0.87	9.048		
		Sqm	2	4.97		0.87	8.6478		
		Sqm	2	14.4		0.87	25.056		
	Terrace								
	Head Room								
		Sqm	2	4.47		3.12	27.8928		
		Sqm	2	3.43		3.12	21.4032		
		Sqm	2	3.43		3.12	21.4032		
	BBMP Office								
	Ground Floor								
	Longer direction	Sqm	2	16.12		3.12	100.5888		
	Shorter direction	Sqm	2	18.02		3.12	112.4448		
		Sqm	2	18.02		3.12	112.4448		
	Varandha Front	Sqm	1	5.35	5.35		28.6225		
	Chejja	Sqm	36	2.7	0.6		58.32		
	Ventilator	Sqm	4	2.2	0.6		5.28		
	1st Floor								
	Longer direction	Sqm	2	16.12		3.12	100.5888		
	Shorter direction	Sqm	2	18.02		3.12	112.4448		
		Sqm	2	18.02		3.12	112.4448		
	Varandha Front	Sqm	1	5.35	5.35		28.6225		
	Chejja	Sqm	36	2.7	0.6		58.32		
	Ventilator	Sqm	4	2.2	0.6		5.28		
	Library Building								
	Deducation								
	Gate	Sqm	-1	2		2.72	-5.44		
	W	Sqm	-22	1.8		1.2	-47.52		
	W1	Sqm	-2	1.8		0.45	-1.62		
	V	Sqm	-2	0.45		0.45	-0.405		
	BBMP Office								
	Gate	Sqm	-1	2.65		2.4	-6.36		
	W	Sqm	-16	2.4		1.8	-69.12		
	W1	Sqm	-4	2.4		1.5	-14.4		
	V	Sqm	-2	1.9		0.46	-1.748		
	V1	Sqm	-2	0.45		0.45	-0.405		
	Basic rate							**136.00**	
	Area weightage 10%							**13.6**	
	Total						**1667.87**	**149.60**	**249513.71**
3	Finishing with Epoxy paint (two coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On concrete work including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(PWD SR 2021-22 Vol -II Pg 48 item no 8.36.2)								
	Library Building								
	Inside Painting								

Sl No.	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	Ground Floor								
	Hall								
		Sqm	2	9.59		3	57.54		
		Sqm	2	10.65		3	63.90		
	Sealing	Sqm	1	10.65	9.59		102.13		
	Room 1								
		Sqm	2	4.03		3	24.18		
		Sqm	2	3.45		3	20.70		
	Sealing	Sqm	1	4.03	3.45		13.90		
	Toilet								
		Sqm	2	3.45		3	20.70		
		Sqm	2	2.3		3	13.80		
	Sealing	Sqm	1	3.45	2.3		7.94		
	Passage								
		Sqm	2	3.7		3	22.20		
		Sqm	2	2.76		3	16.56		
	Sealing	Sqm	1	3.7	2.76		10.21		
	Enterance								
		Sqm	2	9.59		3	57.54		
		Sqm	2	4		3	24.00		
	For Columns								
	Columns	Sqm	10	0.06		3	1.80		
	1st Floor								
	Hall								
		Sqm	2	9.59		3	57.54		
		Sqm	2	10.65		3	63.90		
	Sealing	Sqm	1	10.65	9.59		102.13		
	Room 1								
		Sqm	2	4.03		3	24.18		
		Sqm	2	3.45		3	20.70		
	Sealing	Sqm	1	4.03	3.45		13.90		
	Toilet								
		Sqm	2	3.45		3	20.70		
		Sqm	2	2.3		3	13.80		
	Sealing	Sqm	1	3.45	2.3		7.94		
	Passage								
		Sqm	2	3.7		3	22.20		
		Sqm	2	2.76		3	16.56		
	Sealing	Sqm	1	3.7	2.76		10.21		
	Enterance 1st Floor								
		Sqm	2	9.59		3	57.54		
		Sqm	2	4		3	24.00		
	Terrace								

Sl No.	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
	Head Room								
		Sqm	2	4.47		3	26.82		
		Sqm	2	3.43		3	20.58		
	Sealing	Sqm	1	4.47	3.43		15.33		
	For Columns								
	Columns	Sqm	10	0.06		3	1.80		
	BBMP Office								
	Ground Floor								
	AE Room								
		Sqm	2	9.35		3	56.10		
		Sqm	2	4.93		3	29.58		
	Sealing	Sqm	2	9.35	4.93		92.19		
	Forest Office Room								
		Sqm	2	7.65		3	45.90		
		Sqm	2	4.14		3	24.84		
	Sealing	Sqm	2	7.65	4.14		63.34		
	Hall								
		Sqm	2	7.65		3	45.90		
		Sqm	2	6		3	36.00		
	Sealing	Sqm	1	7.65	6		45.90		
	Corporate Room								
		Sqm	2	6		3	36.00		
		Sqm	2	4.9		3	29.40		
	Sealing	Sqm	1	6	4.9		29.40		
	Store Room & Toilet								
		Sqm	2	5.17		3	31.02		
		Sqm	2	0.7		3	4.20		
	Sealing	Sqm	1	5.17	0.7		3.62		
	Staff Room								
		Sqm	2	5.17		3	31.02		
		Sqm	2	1.77		3	10.62		
	Sealing	Sqm	2	5.17	1.77		18.30		
	Bathroom								
	Gents & Ladies								
		Sqm	2	4.13		1.5	12.39		
		Sqm	2	2.1		1.5	6.30		
	Sealing	Sqm	2	4.13	2.1		17.35		
	For Columns & Beams								
	Columns	Sqm	12	0.06		3	2.16		
	1st Floor								
	AE Room								
		Sqm	2	9.35		3	56.10		
		Sqm	2	4.93		3	29.58		
	Sealing	Sqm	2	9.35	4.93		92.19		
	Sealing	Sqm	1	6	4.93		29.58		

	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	Forest Office Room								
		Sqm	2	7.65		3	45.90		
		Sqm	2	4.14		3	24.84		
	Sealing	Sqm	2	7.65	4.14		63.34		
	Hall								
		Sqm	2	7.65		3	45.90		
		Sqm	2	6		3	36.00		
	Sealing	Sqm	1	7.65	6		45.90		
	Corporate Room								
		Sqm	2	6		3	36.00		
		Sqm	2	4.9		3	29.40		
	Sealing	Sqm	1	6	4.9		29.40		
	Store Room & Toilet								
		Sqm	2	5.17		3	31.02		
		Sqm	2	0.7		3	4.20		
	Sealing	Sqm	1	5.17	0.7		3.62		
	Staff Room								
		Sqm	2	5.17		3	31.02		
		Sqm	2	1.77		3	10.62		
	Sealing	Sqm	2	5.17	1.77		18.30		
	Bathroom								
	Gents & Ladies								
		Sqm	2	4.13		1.5	12.39		
		Sqm	2	2.1		1.5	6.30		
	Sealing	Sqm	2	4.13	2.1		17.35		
	Lift								
		Sqm	4	2		6.3	50.40		
		Sqm	4	2		6.3	50.40		
	For Columns								
	Columns	Sqm	12	0.06		3	2.16		
	Library Building								
	Deducation								
	Gate	Sqm	-2	2		2.72	-10.88		
	MD	Sqm	-2	1.55		2.1	-6.51		
	D1	Sqm	-4	0.77		2	-6.16		
	D2	Sqm	-2	0.9		2.1	-3.78		
	W	Sqm	-22	1.8		1.2	-47.52		
	W1	Sqm	-2	1.8		0.45	-1.62		
	V	Sqm	-2	0.45		0.45	-0.41		
	BBMP Office								
	Gate	Sqm	-1	2.65		2.4	-6.36		
	W	Sqm	-16	2.4		1.8	-69.12		
	W1	Sqm	-4	2.4		1.5	-14.40		
	D	Sqm	-24	1.2		2.4	-69.12		
	D1	Sqm	-4	0.75		2.7	-8.10		
	MD	Sqm	-2	2.05		2.40	-9.84		
	V	Sqm	-2	1.90		0.46	-1.75		
	V1	Sqm	-2	0.45		0.45	-0.41		
	Basic rate							**138.00**	
	Area weightage 10%							**13.8**	
	Total						**2194.41**	**151.8**	**333111.70**

	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
	Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion, [i] single socketed pipes 100mm diameter (PWD SR 2021-22 1st Corrigenda Vol II. SL No. 27 .Item No 13.48)								
	Rain Water pipes	m	60				60.00		
	Basic rate							253	
	Area weightage 10%							25.30	
	Total						60.00	278.30	16698.00
5	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.Windows Mesh(PWD SR 2021-22 Vol -II Pg95 item no 11.60)								
	Library Building								
	Windows Mesh								
	W	Sqm	22	1.8		1.2	47.52		
	W1	Sqm	2	1.8		0.45	1.62		
	V	Sqm	2	0.45		0.45	0.405		
	BBMP Office								
	W	Sqm	16	2.4		1.8	69.12		
	W1	Sqm	4	2.4		1.5	14.4		
	V	Sqm	2	1.9		0.46	1.748		
	V1	Sqm	2	0.45		0.45	0.405		
	Basic rate							780.00	
	Area weightage 10%							78	
	Total						135.22	858.00	116017.04
6	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required : Single half stall urinal with 5 litre P.V.C. automatic flushing cistern (PWD SR 2021-22 Vol II. PgNo.123.Item No14.5.1)								
	BBMP Office								
	Urinals	Each	4				4.00		
	Basic rate							6628.00	
	Area weightage 10%							662.80	
	Total						4.00	7290.80	29163.20
7	Suitable for Study & Home Office. Table Top Material: 18 mm pre-laminated MDF board. Up to 40 Kg load-bearing capacity. (Data rate to be approved)								
	Library Building								
	Tables	Nos	5				5.00		
	Basic rate							6816.00	
	Total						5.00	6816.00	34080.00
8	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lidBathroom Fittings. (PWD SR 2021-22 Vol -II Pg 123 item no 14.3.1).								

	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
	BBMP Office								
	WC								
		Each	3						
	Basic rate						3.00		
	Area weightage 10%							**5005.00**	
	Total							**500.5**	
9	White Vitreous China Flat back wash basin size 450x 300 mm with single 15mm C.P. brass pillar tap (PWD SR 2021-22 Vol II. PgNo 125.Item No 14.7.7)						**3.00**	**5505.50**	**16516.50**
	Library Building								
	Wash Basin	Each	5						
							5.00		
	BBMP Office								
	Wash Basin	Each	5						
	Basic rate						5.00		
	Area weightage 10%							**1606.00**	
	Total							**160.60**	
10	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, includingb painting of fittings and brackets, cutting and making good the walls wherever require: 14.7.1 White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps(PWD SR 2021-22 Vol -II Pg 124 item no 14.7.1).						**10.00**	**1766.60**	**17666.00**
	Library Building								
	Taps	Each	15						
							15.00		
	BBMP Office								
		Each	10						
	Basic rate						10.00		
	Area weightage 10%							**2529.00**	
	Total							**252.9**	
11	HP 200 Pro G4 22 All in one 10th Generation Intel Core™ i5 processor(8GB GB DDR4/1 TB /256GB SSD/Windows 10) Data Rate complete as per specifications.Specification .and directoin of site engineer in incharge. (Data rate to be approved)						**25.00**	**2781.90**	**69547.50**
	Computer								
		Nos	3						
	Data Rate						3		
	Total							97500.00	
12	Laser Printer with print /Scan/Copy Options with Auto Duplex of Matte canon /HP Data Rate complete as per specifications.Specification .and directoin of site engineer in incharge. (Data rate to be approved)						**3.00**	**97500.00**	**292500.00**
	Colour printer								
		Nos	3						
							3		
	Data Rate								
	Total							**32500.00**	
13	Providing & fixing 10 mm thick plaster of Paris (gypsum anhydrous) ceiling up to a height of 5 m above floor level, over first class kail wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame.(PWD SR 2021-22 Vol -II Pg 24 item no 7.28.1)						3	**32500.00**	**97500.00**
	BBMP Office								
	Wooden Panel								
		Sqm	1	1.10	0.60				
	Basic rate						0.66		
	Area weightage 10%							**951.00**	
	Total							**95.1**	
							0.66	**1046.1**	**690.43**

	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
4	Supplying steel Almirah with shelves & locker 6.6feet 18/20 gaugeof size 78" x 36"x 19" etc. including of all taxes as per approved by engineer in charge (Data rate) complete as per specifications. Specification and directoin of site engineer in incharge (Data rate to be approved)								
	BBMP Office								
		No	4				4		
	Basic rate							12022.5	
	Total						4.00	12022.5	48090.00
15	Executive Bench-Made out of Sadarahalli grey granite stone with hand supports with 3 line finishing with arch/plain design with 100mm slabs height 90x Length 1500 width 45cms (1.50*0.45*0.90m) (Including lead and lift Charges) (inclusive of all taxes) As per the directon of Engineer Incharge. (Data rate to be approved)								
	Benches	Nos	5				5.00		
	Data Rate							18200.00	
	Total						5.00	18200.00	91000.00
16	Providing and placing on terrace(at all floor levels), polyethylene water storage tanks as per IS 12701 marked,with cover and suitable locking arrangement and making necessary holes for inlet,outlet and overflow pipes but without fittings and the base support for tank(For 1000 litre capacity) (PWD SR 2021-22 1st Corrigenda Vol II.Sl No.12.Item No 13.34)..								
	Library Building	lts	2000				2000.00		
	BBMP Office	lts	2000				2000.00		
	Basic rate							8.00	
	Area weightage 10%							0.80	
	Total						4000.00	8.80	35200.00
17	Rubber door mats Data Rate complete as per specifications.Specification and directoin of site engineer in incharge (Data rate to be approved)								
	BBMP Office								
	Door Mats	Each	4.00				4		
	Library Building								
	Door Mats	Each	5.00				5		
	Basic rate							352	
	Total						9.00	352	3168.00
18	Supplying of .....feet - PVC Batten with integrated LED tube .....W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition. light fighting 1 x4'- 20/22 w (PWD Electrical SR 2021-22 Chapter 1 PgNo 34.Item No 11.3.2)								
	BBMP Office								
		Each	6				6		
	Library Building								
		Each	6				6		
	Basic rate							740	
	Total						12.00	740	8880.00
19	Supplying and fixing of slim box fitting, made out of CRCA Sheet metal body with locking type holder completely wired. Excluding Ballast & Flouresent Tube. 1 x 4' Tube light fitting. (PWD Electrical SR 2021-22 Chapter 1 PgNo 38.Item No 11.14.2)								
	BBMP Office								
		Each	10				10		

Sl No.	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	Library Building								
		Each	10				10		
	Basic rate							**324**	
	Total						**20.00**	**324**	**6480.00**
20	Supplying & fixing retrofit type -PL- LED Lamp .....W LED linear source with CCT 6500 degree K, CRI> 70%. efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver integrated in the system, with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any acturing defect working under standard electrical condition. 12.2.1 8-9 Watts Each 0.00 12.2.2 18-20 Watts (PWD Electrical SR 2021-22 Chapter 1 PgNo 34.Item No 11.2.2)								
	BBMP Office								
		Each	10				10		
	Library Building								
		Each	11				11		
	Basic rate							**691**	
	Total						**21.00**	**691**	**14511.00**
21	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374- 1979 and with double ball bearing system. 48" Sweep (1200mm) Regular mode (PWD Electrical SR 2021-22 Chapter 1 PgNo 22.Item No 6.3.1)								
	BBMP Office								
		Each	10				10		
	Library Building								
		Each	10				10		
	Basic rate							**2085**	
	Total						**20.00**	**2085**	**41700.00**

Sl No.	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
								Grand Total	1673623.00
								GST Charges (18% of estimated cost)	301253.00
								Miscellenious and Rounding	25124.000
								Total Amount	2000000.00

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on S.R of 2021-2022, PWD Electrical SR 2021-22, Data Rates, Issused Rates and Corrigenda 1 & 2.

Assistant Engineer
BBMP

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ ಕಛೇರಿ
ಆ.ಐ.ಎ.ಡಿ. ಬೆಂಗಳೂರು-106
Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

Administrative Approval

Accorded For Rs. 20.00 Lakhs.
Head of A/C P-3796
CER NO :.....81..... 23/8/2022

TA CE (YNK)

TECHNICALLY SANCTIONED FOR Rs. 20.00 Lakhs
Rupees Twenty lakhs Only

Under P-3796

Registered as CE ( ) No. 99
Subject to conditions ed in
enclosed memo EE ( ) No. 50 /9/
Dt. 23/8/2022 Estima tioned
RBMP/EE/YNK-01/TS/50/22-23 No. 50
Dated 23/8/2022 Rs. 20.00 Lakhs.

Executive Engineer